

09/807452  
PCT/US99/24511

WO 00/23589

## SEQUENCE LISTING

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

TANG, Y. Tom

YUE, Henry

HILLMAN, Jennifer L.

GUEGLER, Karl J.

CORLEY, Neil C.

LAL, Preeti

AZIMZAI, Yalda

BAUGHN, Mariah R.

JUNMING, Yang

SHIH, Leo L.

&lt;120&gt; PROLIFERATION AND APOPTOSIS RELATED PROTEINS

&lt;130&gt; PF-0619 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

<150> 09/175,737; unassigned; 60/118,559; 09/249,740; unassigned;  
60/154,336<151> 1998-10-20; 1998-10-20; 1999-02-04; 1999-04-11; 1999-04-11;  
1999-04-22

&lt;160&gt; 44

&lt;170&gt; PERL Program

&lt;210&gt; 1

&lt;211&gt; 334

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1342011CD1

&lt;400&gt; 1

Met	Ser	Arg	Thr	Met	Ala	Arg	Thr	Arg	Pro	Gly	Gln	Leu	Gly	Arg
1				5					10					15
Val	Thr	Gly	Ala	Gly	Gly	Trp	Gly	Ser	Ala	Ala	Val	Cys	Arg	Gly
				20					25					30
Arg	Ala	Leu	Arg	Gly	Arg	Glu	Pro	Ala	Leu	Pro	Ser	Ala	Ser	Phe
				35					40					45
Pro	Asp	Val	Ala	Ala	Cys	Pro	Gly	Ser	Leu	Asp	Cys	Ala	Leu	Lys
				50					55					60
Arg	Arg	Ala	Arg	Cys	Pro	Pro	Gly	Ala	His	Ala	Cys	Gly	Pro	Cys
				65					70					75
Leu	Gln	Pro	Phe	Gln	Glu	Asp	Gln	Gln	Gly	Leu	Cys	Val	Pro	Arg
				80					85					90
Met	Arg	Arg	Pro	Pro	Gly	Gly	Gly	Arg	Pro	Gln	Pro	Arg	Leu	Glu
				95					100					105

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Asp	Glu	Ile	Asp	Phe	Leu	Ala	Gln	Glu	Leu	Ala	Arg	Lys	Glu	Ser
				110					115					120
Gly	His	Ser	Thr	Pro	Pro	Leu	Pro	Lys	Asp	Arg	Gln	Arg	Leu	Pro
				125					130					135
Glu	Pro	Ala	Thr	Leu	Gly	Phe	Ser	Ala	Arg	Gly	Gln	Gly	Leu	Glu
				140					145					150
Leu	Gly	Leu	Pro	Ser	Thr	Pro	Gly	Thr	Pro	Thr	Pro	Thr	Pro	His
				155					160					165
Thr	Ser	Leu	Gly	Ser	Pro	Val	Ser	Ser	Asp	Pro	Val	His	Met	Ser
				170					175					180
Pro	Leu	Glu	Pro	Arg	Gly	Gly	Gln	Gly	Asp	Gly	Leu	Ala	Leu	Val
				185					190					195
Leu	Ile	Leu	Ala	Phe	Cys	Val	Ala	Gly	Ala	Ala	Ala	Leu	Ser	Val
				200					205					210
Ala	Ser	Leu	Cys	Trp	Cys	Arg	Leu	Gln	Arg	Glu	Ile	Arg	Leu	Thr
				215					220					225
Gln	Lys	Ala	Asp	Tyr	Ala	Thr	Ala	Lys	Ala	Pro	Gly	Ser	Pro	Ala
				230					235					240
Ala	Pro	Arg	Ile	Ser	Pro	Gly	Asp	Gln	Arg	Leu	Ala	Gln	Ser	Ala
				245					250					255
Glu	Met	Tyr	His	Tyr	Gln	His	Gln	Arg	Gln	Gln	Met	Leu	Cys	Leu
				260					265					270
Glu	Arg	His	Lys	Glu	Pro	Pro	Lys	Glu	Leu	Asp	Thr	Ala	Ser	Ser
				275					280					285
Asp	Glu	Glu	Asn	Glu	Asp	Gly	Asp	Phe	Thr	Val	Tyr	Glu	Cys	Pro
				290					295					300
Gly	Leu	Ala	Pro	Thr	Gly	Glu	Met	Glu	Val	Arg	Asn	Pro	Leu	Phe
				305					310					315
Asp	His	Ala	Ala	Leu	Ser	Ala	Pro	Leu	Pro	Ala	Pro	Ser	Ser	Pro
				320					325					330
Pro	Ala	Leu	Pro											

&lt;210&gt; 2

&lt;211&gt; 281

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1880041CD1

&lt;400&gt; 2

Met	Ala	Val	Asn	Val	Tyr	Ser	Thr	Ser	Val	Thr	Ser	Glu	Asn	Leu
1				5					10					15
Ser	Arg	His	Asp	Met	Leu	Ala	Trp	Val	Asn	Asp	Ser	Leu	His	Leu
				20					25					30
Asn	Tyr	Thr	Lys	Ile	Glu	Gln	Leu	Cys	Ser	Gly	Ala	Ala	Tyr	Cys
				35					40					45
Gln	Phe	Met	Asp	Met	Leu	Phe	Pro	Gly	Cys	Val	His	Leu	Arg	Lys
				50					55					60
Val	Lys	Phe	Gln	Ala	Lys	Leu	Glu	His	Glu	Tyr	Ile	His	Asn	Phe
				65					70					75
Lys	Val	Leu	Gln	Ala	Ala	Phe	Lys	Lys	Met	Gly	Val	Asp	Lys	Ile
				80					85					90

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Ile	Pro	Val	Glu	Lys	Leu	Val	Lys	Gly	Lys	Phe	Gln	Asp	Asn	Phe	
				95					100					105	
Glu	Phe	Ile	Gln	Trp	Phe	Lys	Lys	Phe	Phe	Asp	Ala	Asn	Tyr	Asp	
				110					115					120	
Gly	Lys	Asp	Tyr	Asn	Pro	Leu	Leu	Ala	Arg	Gln	Gly	Gln	Asp	Val	
				125					130					135	
Ala	Pro	Pro	Pro	Asn	Pro	Gly	Asp	Gln	Ile	Phe	Asn	Lys	Ser	Lys	
				140					145					150	
Lys	Leu	Ile	Gly	Thr	Ala	Val	Pro	Gln	Arg	Thr	Ser	Pro	Thr	Gly	
				155					160					165	
Pro	Lys	Asn	Met	Gln	Thr	Ser	Gly	Arg	Leu	Ser	Asn	Val	Ala	Pro	
				170					175					180	
Pro	Cys	Ile	Leu	Arg	Lys	Asn	Pro	Pro	Ser	Ala	Arg	Asn	Gly	Gly	
				185					190					195	
His	Glu	Thr	Asp	Ala	Gln	Ile	Leu	Glu	Leu	Asn	Gln	Gln	Leu	Val	
				200					205					210	
Asp	Leu	Lys	Leu	Thr	Val	Asp	Gly	Leu	Glu	Lys	Glu	Arg	Asp	Phe	
				215					220					225	
Tyr	Phe	Ser	Lys	Leu	Arg	Asp	Ile	Glu	Leu	Ile	Cys	Gln	Glu	His	
				230					235					240	
Glu	Ser	Glu	Asn	Ser	Pro	Val	Ile	Ser	Gly	Ile	Ile	Gly	Ile	Leu	
				245					250					255	
Tyr	Ala	Thr	Glu	Glu	Gly	Phe	Ala	Pro	Pro	Glu	Asp	Asp	Glu	Ile	
				260					265					270	
Glu	Glu	His	Gln	Gln	Glu	Asp	Gln	Asp	Glu	Tyr					
				275					280						

&lt;210&gt; 3

&lt;211&gt; 237

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3201881CD1

&lt;400&gt; 3

Met	Gly	Glu	Asp	Ala	Ala	Gln	Ala	Glu	Lys	Phe	Gln	His	Pro	Gly	
1				5					10					15	
Ser	Asp	Met	Arg	Gln	Glu	Lys	Pro	Ser	Ser	Pro	Ser	Pro	Met	Pro	
				20					25					30	
Ser	Ser	Thr	Pro	Ser	Pro	Ser	Leu	Asn	Leu	Gly	Asn	Thr	Glu	Glu	
				35					40					45	
Ala	Ile	Arg	Asp	Asn	Ser	Gln	Val	Asn	Ala	Val	Thr	Val	Leu	Thr	
				50					55					60	
Leu	Leu	Asp	Lys	Leu	Val	Asn	Met	Leu	Asp	Ala	Val	Gln	Glu	Asn	
				65					70					75	
Gln	His	Lys	Met	Glu	Gln	Arg	Gln	Ile	Ser	Leu	Glu	Gly	Ser	Val	
				80					85					90	
Lys	Gly	Ile	Gln	Asn	Asp	Leu	Thr	Lys	Leu	Ser	Lys	Tyr	Gln	Ala	
				95					100					105	
Ser	Thr	Ser	Asn	Thr	Val	Ser	Lys	Leu	Leu	Glu	Lys	Ser	Arg	Lys	
				110					115					120	
Val	Ser	Ala	His	Thr	Arg	Ala	Val	Lys	Glu	Arg	Met	Asp	Arg	Gln	



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Asn Thr Pro Tyr	Pro Gly Gly Leu Asn Thr	Pro Tyr Pro Gly Gly	215	220	225
Met Thr Pro Gly	Leu Met Thr Pro Gly Thr	Gly Glu Leu Asp Met	230	235	240
Arg Lys Ile Gly	Gln Ala Arg Asn Thr	Leu Met Asp Met Arg Leu	245	250	255
Ser Gln Val Ser	Asp Ser Val Ser Gly Gln	Thr Val Val Asp Pro	260	265	270
Lys Gly Tyr Leu	Thr Asp Leu Asn Ser Met	Ile Pro Thr His Gly	275	280	285
Gly Asp Ile Asn	Asp Ile Lys Lys Ala Arg	Leu Leu Leu Lys Ser	290	295	300
Val Arg Glu Thr	Asn Pro His His Pro	Pro Ala Trp Ile Ala Ser	305	310	315
Ala Arg Leu Glu	Glu Val Thr Gly Lys Leu	Gln Val Ala Arg Asn	320	325	330
Leu Ile Met Lys	Gly Thr Glu Met Cys Pro	Lys Ser Glu Asp Val	335	340	345
Trp Leu Glu Ala	Ala Arg Leu Gln Pro Gly	Asp Thr Ala Lys Ala	350	355	360
Val Val Ala Gln	Ala Val Arg His Leu Pro	Gln Ser Val Arg Ile	365	370	375
Tyr Ile Arg Ala	Ala Glu Leu Glu Thr Asp	Ile Arg Ala Lys Lys	380	385	390
Arg Val Leu Arg	Lys Ala Leu Glu His Val	Pro Asn Ser Val Arg	395	400	405
Leu Trp Lys Ala	Ala Val Glu Leu Glu Glu	Pro Glu Asp Ala Arg	410	415	420
Ile Met Leu Ser	Arg Ala Val Glu Cys Cys	Pro Thr Ser Val Glu	425	430	435
Leu Trp Leu Ala	Leu Ala Arg Leu Glu Thr	Tyr Glu Asn Ala Arg	440	445	450
Lys Val Leu Asn	Lys Ala Arg Glu Asn Ile	Pro Thr Asp Arg His	455	460	465
Ile Trp Ile Thr	Ala Ala Lys Leu Glu Glu	Ala Asn Gly Asn Thr	470	475	480
Gln Met Val Glu	Lys Ile Ile Asp Arg Ala	Ile Thr Ser Leu Arg	485	490	495
Ala Asn Gly Val	Glu Ile Asn Arg Glu Gln	Trp Ile Gln Asp Ala	500	505	510
Glu Glu Cys Asp	Arg Ala Gly Ser Val Ala	Thr Cys Gln Ala Val	515	520	525
Met Arg Ala Val	Ile Gly Ile Gly Ile Glu	Glu Glu Asp Arg Lys	530	535	540
His Thr Trp Met	Glu Asp Ala Asp Ser Cys	Val Ala His Asn Ala	545	550	555
Leu Glu Cys Ala	Arg Ala Ile Tyr Ala Tyr	Ala Leu Gln Val Phe	560	565	570
Pro Ser Lys Lys	Ser Val Trp Leu Arg Ala	Ala Tyr Phe Glu Lys	575	580	585
Asn His Gly Thr	Arg Glu Ser Leu Glu Ala	Leu Leu Gln Arg Ala	590	595	600
Val Ala His Cys	Pro Lys Ala Glu Val Leu	Trp Leu Met Gly Ala	605	610	615
Lys Ser Lys Trp	Leu Ala Gly Asp Val Pro	Ala Ala Arg Ser Ile			

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Leu Ala Leu Ala	620	Asn Ser Glu Glu Ile Trp	625	630
Phe Gln Ala Asn Pro	635	Asn Asp Glu Tyr Glu Arg	640	645
Leu Ala Ala Val	650	Leu Ala Lys Ala Arg	655	660
Ala Arg Arg Leu	665	Ser Ser Ala Pro Thr Ala	670	675
Arg Val Phe Met	680	Lys Ser Val Lys Leu	685	690
Ile Arg Ala Ala	695	Glu Glu Ala Leu Arg His	700	705
Glu Asp Phe Pro	710	Lys Gly Gln Ile Glu Glu	715	720
Gln Lys Glu Met	725	Met Glu Lys Ala Arg	730	735
Leu Lys Lys Cys	740	Pro His Ser Thr Pro	745	750
Arg Leu Glu Glu	755	Lys Ile Gly Gln Leu	760	765
Leu Glu Lys Ser	770	Arg Leu Lys Asn Pro	775	780
Leu Glu Ser Val	785	Arg Leu Glu Tyr Arg	790	795
Ala Asn Thr Leu	800	Met Ala Lys Ala Leu	805	810
Gly Ile Leu Trp	815	Ser Glu Ala Ile Phe	820	825
Arg Arg Thr Lys	830	Ser Val Asp Ala Leu	835	840
Pro His Val Leu	845	Leu Ala Val Ala Lys	850	855
Lys Ile Thr Lys	860	Ala Arg Glu Trp Phe	865	870
Asp Ser Asp Leu	875	Gly Asp Ala Trp Ala	880	885
Leu Gln His Gly	890	Thr Glu Glu Gln Gln	895	900
Cys Glu Ser Ala	905	Glu Pro Arg His Gly	910	915
Ser Lys Asp Ile	920	Ala Asn Trp Gln Lys	925	930
Arg Leu Val Ala	935	Gly Arg Ile Lys Asn	940	

<210> 5

<211> 918

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2125677CD1

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&lt;400&gt; 5

Met Thr Ala Arg	Glu Glu Ala Ser Leu Arg Thr Leu Glu Gly Arg	
1	5	10 15
Arg Arg Ala Thr	Leu Leu Ser Ala Arg Gln Gly Met Met Ser Ala	
	20	25 30
Arg Gly Asp Phe	Leu Asn Tyr Ala Leu Ser Leu Met Arg Ser His	
	35	40 45
Asn Asp Glu His	Ser Asp Val Leu Pro Val Leu Asp Val Cys Ser	
	50	55 60
Leu Lys His Val	Ala Tyr Val Phe Gln Ala Leu Ile Tyr Trp Ile	
	65	70 75
Lys Ala Met Asn	Gln Gln Thr Thr Leu Asp Thr Pro Gln Leu Glu	
	80	85 90
Arg Lys Arg Thr	Arg Glu Leu Leu Glu Leu Gly Ile Asp Asn Glu	
	95	100 105
Asp Ser Glu His	Glu Asn Asp Asp Asp Thr Asn Gln Ser Ala Thr	
	110	115 120
Leu Asn Asp Lys	Asp Asp Asp Ser Leu Pro Ala Glu Thr Gly Gln	
	125	130 135
Asn His Pro Phe	Phe Arg Arg Ser Asp Ser Met Thr Phe Leu Gly	
	140	145 150
Cys Ile Pro Pro	Asn Pro Phe Glu Val Pro Leu Ala Glu Ala Ile	
	155	160 165
Pro Leu Ala Asp	Gln Pro His Leu Leu Gln Pro Asn Ala Arg Lys	
	170	175 180
Glu Asp Leu Phe	Gly Arg Pro Ser Gln Gly Leu Tyr Ser Ser Ser	
	185	190 195
Ala Ser Ser Gly	Lys Cys Leu Met Glu Val Thr Val Asp Arg Asn	
	200	205 210
Cys Leu Glu Val	Leu Pro Thr Lys Met Ser Tyr Ala Ala Asn Leu	
	215	220 225
Lys Asn Val Met	Asn Met Gln Asn Arg Gln Lys Lys Glu Gly Glu	
	230	235 240
Glu Gln Pro Val	Leu Pro Glu Glu Thr Glu Ser Ser Lys Pro Gly	
	245	250 255
Pro Ser Ala His	Asp Leu Ala Ala Gln Leu Lys Ser Ser Leu Leu	
	260	265 270
Ala Glu Ile Gly	Leu Thr Glu Ser Glu Gly Pro Pro Leu Thr Ser	
	275	280 285
Phe Arg Pro Gln	Cys Ser Phe Met Gly Met Val Ile Ser His Asp	
	290	295 300
Met Leu Leu Gly	Arg Trp Arg Leu Ser Leu Glu Leu Phe Gly Arg	
	305	310 315
Val Phe Met Glu	Asp Val Gly Ala Glu Pro Gly Ser Ile Leu Thr	
	320	325 330
Glu Leu Gly Gly	Phe Glu Val Lys Glu Ser Lys Phe Arg Arg Glu	
	335	340 345
Met Glu Lys Leu	Arg Asn Gln Gln Ser Arg Asp Leu Ser Leu Glu	
	350	355 360
Val Lys Val Asp	Arg Asp Arg Asp Leu Leu Ile Gln Gln Thr Met	
	365	370 375
Arg Gln Leu Asn	Asn His Phe Gly Arg Arg Cys Ala Thr Thr Pro	
	380	385 390
Met Ala Val His	Arg Val Lys Val Thr Phe Lys Asp Glu Pro Gly	
	395	400 405

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Glu Gly Ser Gly Val Ala Arg Ser Phe Tyr Thr Ala Ile Ala Gln		
410	415	420
Ala Phe Leu Ser Asn Glu Lys Leu Pro Asn Leu Glu Cys Ile Gln		
425	430	435
Asn Ala Asn Lys Gly Thr His Thr Ser Leu Met Gln Arg Leu Arg		
440	445	450
Asn Arg Gly Glu Arg Asp Arg Glu Arg Glu Arg Glu Arg Glu Met		
455	460	465
Arg Arg Ser Ser Gly Leu Arg Ala Gly Ser Arg Arg Asp Arg Asp		
470	475	480
Arg Asp Phe Arg Arg Gln Leu Ser Ile Asp Thr Arg Pro Phe Arg		
485	490	495
Pro Ala Ser Glu Gly Asn Pro Ser Asp Asp Pro Glu Pro Leu Pro		
500	505	510
Ala His Arg Gln Ala Leu Gly Glu Arg Leu Tyr Pro Arg Val Gln		
515	520	525
Ala Met Gln Pro Ala Phe Ala Ser Lys Ile Thr Gly Met Leu Leu		
530	535	540
Glu Leu Ser Pro Ala Gln Leu Leu Leu Leu Leu Ala Ser Glu Asp		
545	550	555
Ser Leu Arg Ala Arg Val Asp Glu Ala Met Glu Leu Ile Ile Ala		
560	565	570
His Gly Arg Glu Asn Gly Ala Asp Ser Ile Leu Asp Leu Gly Leu		
575	580	585
Val Asp Ser Ser Glu Lys Val Gln Gln Glu Asn Arg Lys Arg His		
590	595	600
Gly Ser Ser Arg Ser Val Val Asp Met Asp Leu Asp Asp Thr Asp		
605	610	615
Asp Gly Asp Asp Asn Ala Pro Leu Phe Tyr Gln Pro Gly Lys Arg		
620	625	630
Gly Phe Tyr Thr Pro Arg Pro Gly Lys Asn Thr Glu Ala Arg Leu		
635	640	645
Asn Cys Phe Arg Asn Ile Gly Arg Ile Leu Gly Leu Cys Leu Leu		
650	655	660
Gln Asn Glu Leu Cys Pro Ile Thr Leu Asn Arg His Val Ile Lys		
665	670	675
Val Leu Leu Gly Arg Lys Val Asn Trp His Asp Phe Ala Phe Phe		
680	685	690
Asp Pro Val Met Tyr Glu Ser Leu Arg Gln Leu Ile Leu Ala Ser		
695	700	705
Gln Ser Ser Asp Ala Asp Ala Val Phe Ser Ala Met Asp Leu Ala		
710	715	720
Phe Ala Ile Asp Leu Cys Lys Glu Glu Gly Gly Gln Val Glu		
725	730	735
Leu Ile Pro Asn Gly Val Asn Ile Pro Val Thr Pro Gln Asn Val		
740	745	750
Tyr Glu Tyr Val Arg Lys Tyr Ala Glu His Arg Met Leu Val Val		
755	760	765
Ala Glu Gln Pro Leu His Ala Met Arg Lys Gly Leu Leu Asp Val		
770	775	780
Leu Pro Lys Asn Ser Leu Glu Asp Leu Thr Ala Glu Asp Phe Arg		
785	790	795
Leu Leu Val Asn Gly Cys Gly Glu Val Asn Val Gln Met Leu Ile		
800	805	810
Ser Phe Thr Ser Phe Asn Asp Glu Ser Gly Glu Asn Ala Glu Lys		



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	815		820		825
Leu Leu Gln Phe	Lys Arg Trp Phe Trp	Ser Ile Val Glu Lys Met			
	830		835		840
Ser Met Thr Glu	Arg Gln Asp Leu Val	Tyr Phe Trp Thr Ser Ser			
	845		850		855
Pro Ser Leu Pro	Ala Ser Glu Glu Gly	Phe Gln Pro Met Pro Ser			
	860		865		870
Ile Thr Ile Arg	Pro Pro Asp Asp Gln	His Leu Pro Thr Ala Asn			
	875		880		885
Thr Cys Ile Ser	Arg Leu Tyr Val Pro	Leu Tyr Ser Ser Lys Gln			
	890		895		900
Ile Leu Lys Gln	Lys Leu Leu Leu Ala	Ile Lys Thr Lys Asn Phe			
	905		910		915
Gly Phe Val					

<210> 6

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2603810CD1

<400> 6

Met Gly Pro Trp Gly	Glu Pro Glu Leu Leu	Val Trp Arg Pro Glu			
1	5	10			15
Ala Val Ala Ser Glu	Pro Pro Val Pro Val	Gly Leu Glu Val Lys			
	20	25			30
Leu Gly Ala Leu Val	Leu Leu Leu Val Leu	Thr Leu Leu Cys Ser			
	35	40			45
Leu Val Pro Ile Cys	Val Leu Arg Arg Pro	Gly Ala Asn His Glu			
	50	55			60
Gly Ser Ala Ser Arg	Gln Lys Ala Leu Ser	Leu Val Ser Cys Phe			
	65	70			75
Ala Gly Gly Val Phe	Leu Ala Thr Cys Leu	Leu Asp Leu Leu Pro			
	80	85			90
Asp Tyr Leu Ala Ala	Ile Asp Glu Ala Leu	Ala Ala Leu His Val			
	95	100			105
Thr Leu Gln Phe Pro	Leu Gln Glu Phe Ile	Leu Ala Met Gly Phe			
	110	115			120
Phe Leu Val Leu Val	Met Glu Gln Ile Thr	Leu Ala Tyr Lys Glu			
	125	130			135
Gln Ser Gly Pro Ser	Pro Leu Glu Glu Thr	Arg Ala Leu Leu Gly			
	140	145			150
Thr Val Asn Gly Gly	Pro Gln His Trp His	Asp Gly Pro Gly Val			
	155	160			165
Pro Gln Ala Ser Gly	Ala Pro Ala Thr Pro	Ser Ala Leu Arg Ala			
	170	175			180
Cys Val Leu Val Phe	Ser Leu Ala Leu His	Ser Val Phe Glu Gly			
	185	190			195
Leu Ala Val Gly Leu	Gln Arg Asp Arg Ala	Arg Ala Met Glu Leu			
	200	205			210
Cys Leu Ala Leu Leu	Leu His Lys Gly Ile	Leu Ala Val Ser Leu			

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	215		220		225
Ser Leu Arg Leu	Leu Gln Ser His Leu Arg Ala Gln Val Val Ala				
	230		235		240
Gly Cys Gly Ile	Leu Phe Ser Cys Met Thr Pro Leu Gly Ile Gly				
	245		250		255
Leu Gly Ala Ala	Leu Ala Glu Ser Ala Gly Pro Leu His Gln Leu				
	260		265		270
Ala Gln Ser Val	Leu Glu Gly Met Ala Ala Gly Thr Phe Leu Tyr				
	275		280		285
Ile Thr Phe Leu	Glu Ile Leu Pro Gln Glu Leu Ala Ser Ser Glu				
	290		295		300
Gln Arg Ile Leu	Lys Val Ile Leu Leu Leu Ala Gly Phe Ala Leu				
	305		310		315
Leu Thr Gly Leu	Leu Phe Ile Gln Ile				
	320				

&lt;210&gt; 7

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2715761CD1

&lt;400&gt; 7

Met Thr Thr Pro	Asn Lys Thr Pro Pro Gly Ala Asp Pro Lys Gln				
1	5	10	15		
Leu Glu Arg Thr	Gly Thr Val Arg Glu Ile Gly Ser Gln Ala Val				
	20	25	30		
Trp Ser Leu Ser	Ser Cys Lys Pro Gly Phe Gly Val Asp Gln Leu				
	35	40	45		
Arg Asp Asp Asn	Leu Glu Thr Tyr Trp Gln Ser Asp Gly Ser Gln				
	50	55	60		
Pro His Leu Val	Asn Ile Gln Phe Arg Arg Lys Thr Thr Val Lys				
	65	70	75		
Thr Leu Cys Ile	Tyr Ala Asp Tyr Lys Ser Asp Glu Ser Tyr Thr				
	80	85	90		
Pro Ser Lys Ile	Ser Val Arg Val Gly Asn Asn Phe His Asn Leu				
	95	100	105		
Gln Glu Ile Arg	Gln Leu Glu Leu Val Glu Pro Ser Gly Trp Ile				
	110	115	120		
His Val Pro Leu	Thr Asp Asn His Lys Lys Pro Thr Arg Thr Phe				
	125	130	135		
Met Ile Gln Ile	Ala Val Leu Ala Asn His Gln Asn Gly Arg Asp				
	140	145	150		
Thr His Met Arg	Gln Ile Lys Ile Tyr Thr Pro Val Glu Glu Ser				
	155	160	165		
Ser Ile Gly Lys	Phe Pro Arg Cys Thr Thr Ile Asp Phe Met Met				
	170	175	180		
Tyr Arg Ser Ile	Arg				
	185				

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<210> 8  
 <211> 445  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3255641CD1

&lt;400&gt; 8

Met	Leu	Ala	Ser	Tyr	Gly	Leu	Ala	Tyr	Ser	Leu	Met	Lys	Phe	Phe
1				5					10					15
Thr	Gly	Pro	Met	Ser	Asp	Phe	Lys	Asn	Val	Gly	Leu	Val	Phe	Val
				20					25					30
Asn	Ser	Lys	Arg	Asp	Arg	Thr	Lys	Ala	Val	Leu	Cys	Met	Val	Val
				35					40					45
Ala	Gly	Ala	Ile	Ala	Ala	Val	Phe	His	Thr	Leu	Ile	Ala	Tyr	Ser
				50					55					60
Asp	Leu	Gly	Tyr	Tyr	Ile	Ile	Asn	Lys	Leu	His	His	Val	Asp	Glu
				65					70					75
Ser	Val	Gly	Ser	Lys	Thr	Arg	Arg	Ala	Phe	Leu	Tyr	Leu	Ala	Ala
				80					85					90
Phe	Pro	Phe	Met	Asp	Ala	Met	Ala	Trp	Thr	His	Ala	Gly	Ile	Leu
				95					100					105
Leu	Lys	His	Lys	Tyr	Ser	Phe	Leu	Val	Gly	Cys	Ala	Ser	Ile	Ser
				110					115					120
Asp	Val	Ile	Ala	Gln	Val	Val	Phe	Val	Ala	Ile	Leu	Leu	His	Ser
				125					130					135
His	Leu	Glu	Cys	Arg	Glu	Pro	Leu	Leu	Ile	Pro	Ile	Leu	Ser	Leu
				140					145					150
Tyr	Met	Gly	Ala	Leu	Val	Arg	Cys	Thr	Thr	Leu	Cys	Leu	Gly	Tyr
				155					160					165
Tyr	Lys	Asn	Ile	His	Asp	Ile	Ile	Pro	Asp	Arg	Ser	Gly	Pro	Glu
				170					175					180
Leu	Gly	Gly	Asp	Ala	Thr	Ile	Arg	Lys	Met	Leu	Ser	Phe	Trp	Trp
				185					190					195
Pro	Leu	Ala	Leu	Ile	Leu	Ala	Thr	Gln	Arg	Ile	Ser	Arg	Pro	Ile
				200					205					210
Val	Asn	Leu	Phe	Val	Ser	Arg	Asp	Leu	Gly	Gly	Ser	Ser	Ala	Ala
				215					220					225
Thr	Glu	Ala	Val	Ala	Ile	Leu	Thr	Ala	Thr	Tyr	Pro	Val	Gly	His
				230					235					240
Met	Pro	Tyr	Gly	Trp	Leu	Thr	Glu	Ile	Arg	Ala	Val	Tyr	Pro	Ala
				245					250					255
Phe	Asp	Lys	Asn	Asn	Pro	Ser	Asn	Lys	Leu	Val	Ser	Thr	Ser	Asn
				260					265					270
Thr	Val	Thr	Ala	Ala	His	Ile	Lys	Lys	Phe	Thr	Phe	Val	Cys	Met
				275					280					285
Ala	Leu	Ser	Leu	Thr	Leu	Cys	Phe	Val	Met	Phe	Trp	Thr	Pro	Asn
				290					295					300
Val	Ser	Glu	Lys	Ile	Leu	Ile	Asp	Ile	Ile	Gly	Val	Asp	Phe	Ala
				305					310					315
Phe	Ala	Glu	Leu	Cys	Val	Val	Pro	Leu	Arg	Ile	Phe	Ser	Phe	Phe
				320					325					330
Pro	Val	Pro	Val	Thr	Val	Arg	Ala	His	Leu	Thr	Gly	Trp	Leu	Met

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335	340	345
Thr Leu Lys Lys Thr Phe Val Leu Ala	Pro Ser Ser Val Leu Arg	
350	355	360
Ile Ile Val Leu Ile Ala Ser Leu Val	Val Leu Pro Tyr Leu Gly	
365	370	375
Val His Gly Ala Thr Leu Gly Val Gly	Ser Leu Leu Ala Gly Phe	
380	385	390
Val Gly Glu Ser Thr Met Val Ala Ile	Ala Ala Cys Tyr Val Tyr	
395	400	405
Arg Lys Gln Lys Lys Lys Met Glu Asn	Glu Ser Ala Thr Glu Gly	
410	415	420
Glu Asp Ser Ala Met Thr Asp Met Pro	Pro Thr Glu Glu Val Thr	
425	430	435
Asp Ile Val Glu Met Arg Glu Glu Asn	Glu	
440	445	

&lt;210&gt; 9

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3620391CD1

&lt;400&gt; 9

Met Pro Arg Glu Arg Arg Glu Arg Asp	Ala Lys Glu Arg Asp Thr
1	5 10 15
Met Lys Glu Asp Gly Gly Ala Glu Phe	Ser Ala Arg Ser Arg Lys
20	25 30
Arg Lys Ala Asn Val Thr Val Phe Cys	Arg Ile Gln Met Lys Lys
35	40 45
Trp Pro Lys Ser Thr Gly Arg Arg Trp	Thr Ser Val Gly Ala Arg
50	55 60
Leu Gly Arg Met Met Gln Ser Val Gln	Ala Pro Ala Pro
65	70

&lt;210&gt; 10

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3969860CD1

&lt;400&gt; 10

Met Ala Ala Leu Phe Gln Glu Ala Ser	Ser Cys Pro Val Cys Ser
1	5 10 15
Asp Tyr Leu Glu Lys Pro Met Ser Leu	Glu Cys Gly Cys Ala Val
20	25 30
Cys Leu Lys Cys Ile Asn Ser Leu Gln	Lys Glu Pro His Gly Glu
35	40 45

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Asp	Leu	Leu	Cys	Cys	Cys	Ser	Ser	Met	Val	Ser	Arg	Lys	Asn	Lys	
			50						55					60	
Ile	Arg	Arg	Asn	Arg	Gln	Leu	Glu	Arg	Leu	Ala	Ser	His	Ile	Lys	
			65						70					75	
Glu	Leu	Glu	Pro	Lys	Leu	Lys	Lys	Ile	Leu	Gln	Met	Asn	Pro	Arg	
			80						85					90	
Met	Arg	Lys	Phe	Gln	Val	Asp	Met	Thr	Leu	Asp	Ala	Asn	Thr	Ala	
			95						100					105	
Asn	Asn	Phe	Leu	Leu	Ile	Ser	Asp	Asp	Leu	Arg	Ser	Val	Arg	Ser	
			110						115					120	
Gly	Arg	Ile	Arg	Gln	Asn	Arg	Gln	Asp	Leu	Ala	Glu	Arg	Phe	Asp	
			125						130					135	
Val	Ser	Val	Cys	Ile	Leu	Gly	Ser	Pro	Arg	Phe	Thr	Cys	Gly	Arg	
			140						145					150	
His	Cys	Trp	Glu	Val	Asp	Val	Gly	Thr	Ser	Thr	Glu	Trp	Asp	Leu	
			155						160					165	
Gly	Val	Cys	Arg	Glu	Ser	Val	His	Arg	Lys	Gly	Arg	Ile	Gln	Leu	
			170						175					180	
Thr	Thr	Glu	Leu	Gly	Phe	Trp	Thr	Val	Ser	Leu	Arg	Asp	Gly	Gly	
			185						190					195	
Arg	Leu	Ser	Ala	Ser	Thr	Val	Pro	Leu	Thr	Phe	Leu	Phe	Val	Asp	
			200						205					210	
Arg	Lys	Leu	Gln	Arg	Val	Gly	Ile	Phe	Leu	Asp	Met	Gly	Met	Gln	
			215						220					225	
Asn	Val	Ser	Phe	Phe	Asp	Ala	Glu	Ser	Gly	Ser	His	Val	Tyr	Thr	
			230						235					240	
Phe	Arg	Ser	Val	Ser	Ala	Glu	Glu	Pro	Leu	Arg	Pro	Phe	Leu	Ala	
			245						250					255	
Pro	Ser	Val	Pro	Pro	Asn	Gly	Asp	Gln	Gly	Val	Leu	Ser	Ile	Cys	
			260						265					270	
Pro	Leu	Met	Asn	Ser	Gly	Thr	Thr	Asp	Ala	Pro	Val	Arg	Pro	Gly	
			275						280					285	
Glu	Ala	Lys													

&lt;210&gt; 11

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4286006CD1

&lt;400&gt; 11

Met	Ala	Lys	Phe	Gly	Val	His	Arg	Ile	Leu	Leu	Leu	Ala	Ile	Ser	
1				5					10					15	
Leu	Thr	Lys	Cys	Leu	Glu	Ser	Thr	Lys	Leu	Leu	Ala	Asp	Leu	Lys	
				20					25					30	
Lys	Cys	Gly	Asp	Leu	Glu	Cys	Glu	Ala	Leu	Ile	Asn	Arg	Val	Ser	
				35					40					45	
Ala	Met	Arg	Asp	Tyr	Arg	Gly	Pro	Asp	Cys	Arg	Tyr	Leu	Asn	Phe	
				50					55					60	
Thr	Lys	Gly	Glu	Glu	Ile	Ser	Val	Tyr	Val	Lys	Leu	Ala	Gly	Asp	



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Thr Arg Ile Ala	290	295	300
Phe Lys Val Gln Gln Lys Arg Leu Thr Lys Thr			
305	310	315	
Ser Arg Cys Gly Pro Trp Ala Arg Phe Cys Asn Arg Phe Val Asp			
320	325	330	
Thr Trp Ala Arg Asp Glu Asp Thr Val Leu Lys His Leu Arg Ala			
335	340	345	
Ser Met Lys Lys Leu Thr Arg Lys Gln Gly Asp Leu Pro Pro Pro			
350	355	360	
Ala Lys Pro Glu Gln Gly Ser Ser Ala Ser Arg Pro Val Pro Ala			
365	370	375	
Ser Arg Gly Gly Lys Thr Leu Cys Lys Gly Asp Arg Gln Ala Pro			
380	385	390	
Pro Gly Pro Pro Ala Arg Phe Pro Arg Pro Ile Trp Ser Ala Ser			
395	400	405	
Pro Pro Arg Ala Pro Arg Ser Ser Thr Pro Cys Pro Gly Gly Ala			
410	415	420	
Val Arg Glu Asp Thr Tyr Pro Val Gly Thr Gln Gly Val Pro Ser			
425	430	435	
Pro Ala Leu Ala Gln Gly Gly Pro Gln Gly Ser Trp Arg Phe Leu			
440	445	450	
Gln Trp Asn Ser Met Pro Arg Leu Pro Thr Asp Leu Asp Val Glu			
455	460	465	
Gly Pro Trp Phe Arg His Tyr Asp Phe Arg Gln Ser Cys Trp Val			
470	475	480	
Arg Ala Ile Ser Gln Glu Asp Gln Leu Ala Pro Cys Trp Gln Ala			
485	490	495	
Glu His Pro Ala Glu Arg Val Arg Ser Ala Phe Ala Ala Pro Ser			
500	505	510	
Thr Asp Ser Asp Gln Gly Thr Pro Phe Arg Ala Arg Asp Glu Gln			
515	520	525	
Pro Cys Ala Pro Thr Ser Gly Pro Cys Leu Cys Gly Leu His Leu			
530	535	540	
Glu Ser Ser Gln Phe Pro Pro Gly Phe			
545			

<210> 13  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1438978CD1

<400> 13  
 Met Ser Phe Leu Leu Pro Lys Leu Thr Ser Lys Lys Glu Val Asp  
 1 5 10 15  
 Gln Ala Ile Lys Ser Thr Ala Glu Lys Val Leu Val Leu Arg Phe  
 20 25 30  
 Gly Arg Asp Glu Asp Pro Val Cys Leu Gln Leu Asp Asp Ile Leu  
 35 40 45  
 Ser Lys Thr Ser Ser Asp Leu Ser Lys Met Ala Ala Ile Tyr Leu  
 50 55 60

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Val	Asp	Val	Asp	Gln	Thr	Ala	Val	Tyr	Thr	Gln	Tyr	Phe	Asp	Ile
				65						70				75
Ser	Tyr	Ile	Pro	Ser	Thr	Val	Phe	Phe	Phe	Asn	Gly	Gln	His	Met
				80						85				90
Lys	Val	Asp	Tyr	Gly										
				95										

&lt;210&gt; 14

&lt;211&gt; 445

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2024773CD1

&lt;400&gt; 14

Met	Ala	Ala	Pro	Glu	Glu	Arg	Asp	Leu	Thr	Gln	Glu	Gln	Thr	Glu
1				5					10					15
Lys	Leu	Leu	Gln	Phe	Gln	Asp	Leu	Thr	Gly	Ile	Glu	Ser	Met	Asp
				20					25					30
Gln	Cys	Arg	His	Thr	Leu	Glu	Gln	His	Asn	Trp	Asn	Ile	Glu	Ala
				35					40					45
Ala	Val	Gln	Asp	Arg	Leu	Asn	Glu	Gln	Glu	Gly	Val	Pro	Ser	Val
				50					55					60
Phe	Asn	Pro	Pro	Pro	Ser	Arg	Pro	Leu	Gln	Val	Asn	Thr	Ala	Asp
				65					70					75
His	Arg	Ile	Tyr	Ser	Tyr	Val	Val	Ser	Arg	Pro	Gln	Pro	Arg	Gly
				80					85					90
Leu	Leu	Gly	Trp	Gly	Tyr	Tyr	Leu	Ile	Met	Leu	Pro	Phe	Arg	Phe
				95					100					105
Thr	Tyr	Tyr	Thr	Ile	Leu	Asp	Ile	Phe	Arg	Phe	Ala	Leu	Arg	Phe
				110					115					120
Ile	Arg	Pro	Asp	Pro	Arg	Ser	Arg	Val	Thr	Asp	Pro	Val	Gly	Asp
				125					130					135
Ile	Val	Ser	Phe	Met	His	Ser	Phe	Glu	Glu	Lys	Tyr	Gly	Arg	Ala
				140					145					150
His	Pro	Val	Phe	Tyr	Gln	Gly	Thr	Tyr	Ser	Gln	Ala	Leu	Asn	Asp
				155					160					165
Ala	Lys	Arg	Glu	Leu	Arg	Phe	Leu	Leu	Val	Tyr	Leu	His	Gly	Asp
				170					175					180
Asp	His	Gln	Asp	Ser	Asp	Glu	Phe	Cys	Arg	Asn	Thr	Leu	Cys	Ala
				185					190					195
Pro	Glu	Val	Ile	Ser	Leu	Ile	Asn	Thr	Arg	Met	Leu	Phe	Trp	Ala
				200					205					210
Cys	Ser	Thr	Asn	Lys	Pro	Glu	Gly	Tyr	Arg	Val	Ser	Gln	Ala	Leu
				215					220					225
Arg	Glu	Asn	Thr	Tyr	Pro	Phe	Leu	Ala	Met	Ile	Met	Leu	Lys	Asp
				230					235					240
Arg	Arg	Met	Thr	Val	Val	Gly	Arg	Leu	Glu	Gly	Leu	Ile	Gln	Pro
				245					250					255
Asp	Asp	Leu	Ile	Asn	Gln	Leu	Thr	Phe	Ile	Met	Asp	Ala	Asn	Gln
				260					265					270
Thr	Tyr	Leu	Val	Ser	Glu	Arg	Leu	Glu	Arg	Glu	Glu	Arg	Asn	Gln
				275					280					285



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Thr Gln Val Leu Arg Gln Gln Gln Asp Glu Ala Tyr Leu Ala Ser
    290                      295                      300
Leu Arg Ala Asp Gln Glu Lys Glu Arg Lys Lys Arg Glu Glu Arg
    305                      310                      315
Glu Arg Lys Arg Arg Lys Glu Glu Glu Val Gln Gln Gln Lys Leu
    320                      325                      330
Ala Glu Glu Arg Arg Arg Gln Asn Leu Gln Glu Glu Lys Glu Arg
    335                      340                      345
Lys Leu Glu Cys Leu Pro Pro Glu Pro Ser Pro Asp Asp Pro Glu
    350                      355                      360
Ser Val Lys Ile Ile Phe Lys Leu Pro Asn Asp Ser Arg Val Glu
    365                      370                      375
Arg Arg Phe His Phe Ser Gln Ser Leu Thr Val Ile His Asp Phe
    380                      385                      390
Leu Phe Ser Leu Lys Glu Ser Pro Glu Lys Phe Gln Ile Glu Ala
    395                      400                      405
Asn Phe Pro Arg Arg Val Leu Pro Cys Ile Pro Ser Glu Glu Trp
    410                      415                      420
Pro Asn Pro Pro Thr Leu Gln Glu Ala Gly Leu Ser His Thr Glu
    425                      430                      435
Val Leu Phe Val Gln Asp Leu Thr Asp Glu
    440                      445

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&lt;210&gt; 15

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3869790CD1

&lt;400&gt; 15

```

Met Glu Tyr Leu Ser Ala Leu Asn Pro Ser Asp Leu Leu Arg Ser
    1                      5                      10                      15
Val Ser Asn Ile Ser Ser Glu Phe Gly Arg Arg Val Trp Thr Ser
    20                      25                      30
Ala Pro Pro Pro Gln Arg Pro Phe Arg Val Cys Asp His Lys Arg
    35                      40                      45
Thr Ile Arg Lys Gly Leu Thr Ala Ala Thr Arg Gln Glu Leu Leu
    50                      55                      60
Ala Lys Ala Leu Glu Thr Leu Leu Leu Asn Gly Val Leu Thr Leu
    65                      70                      75
Val Leu Glu Glu Asp Gly Thr Ala Val Asp Ser Glu Asp Phe Phe
    80                      85                      90
Gln Leu Leu Glu Asp Asp Thr Cys Leu Met Val Leu Gln Ser Gly
    95                      100                      105
Gln Ser Trp Ser Pro Thr Arg Ser Gly Val Leu Ser Tyr Gly Leu
    110                      115                      120
Gly Arg Glu Arg Pro Lys His Ser Lys Asp Ile Ala Arg Phe Thr
    125                      130                      135
Phe Asp Val Tyr Lys Gln Asn Pro Arg Asp Leu Phe Gly Ser Leu
    140                      145                      150
Asn Val Lys Ala Thr Phe Tyr Gly Leu Tyr Ser Met Ser Cys Asp

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260	265	270
Leu Pro Leu Phe Lys Arg Gln Tyr Glu Asn His Ile Phe Val Gly		
275	280	285
Ser Lys Thr Ala Asp Pro Cys Cys Tyr Gly His Thr Gln Phe His		
290	295	300
Leu Leu Pro Asp Lys Leu Arg Arg Glu Arg Leu Leu Arg Gln Asn		
305	310	315
Cys Ala Asp Gln Ile Glu Val Val Phe Arg Ala Asn Ala Ile Ala		
320	325	330
Ser Leu Phe Ala Trp Thr Gly Ala Gln Ala Met Tyr Gln Gly Phe		
335	340	345
Trp Ser Glu Ala Asp Val Thr Arg Pro Phe Val Ser Gln Ala Val		
350	355	360
Ile Thr Asp Gly Lys Tyr Phe Ser Phe Phe Cys Tyr Gln Leu Asn		
365	370	375
Thr Leu Ala Leu Thr Thr Gln Ala Asp Gln Asn Asn Pro Arg Lys		
380	385	390
Asn Ile Cys Trp Gly Thr Gln Ser Lys Pro Leu Tyr Glu Thr Ile		
395	400	405
Glu Asp Asn Asp Val Lys Gly Phe Asn Asp Asp Val Leu Leu Gln		
410	415	420
Ile Val His Phe Leu Leu Asn Arg Pro Lys Glu Glu Lys Ser Gln		
425	430	435
Leu Leu Glu Asn		

&lt;210&gt; 17

&lt;211&gt; 526

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 411831CD1

&lt;400&gt; 17

Met Ala Ser Gly Pro His Ser Thr Ala Thr Ala Ala Ala Ala Ala		
1	5	10
Ser Ser Ala Ala Pro Ser Ala Gly Gly Ser Ser Ser Gly Thr Thr		
20	25	30
Thr Thr Thr Thr Thr Thr Thr Gly Gly Ile Leu Ile Gly Asp Arg		
35	40	45
Leu Tyr Ser Glu Val Ser Leu Thr Ile Asp His Ser Leu Ile Pro		
50	55	60
Glu Glu Arg Leu Ser Pro Thr Pro Ser Met Gln Asp Gly Leu Asp		
65	70	75
Leu Pro Ser Glu Thr Asp Leu Arg Ile Leu Gly Cys Glu Leu Ile		
80	85	90
Gln Ala Ala Gly Ile Leu Leu Arg Leu Pro Gln Val Ala Met Ala		
95	100	105
Thr Gly Gln Val Leu Phe His Arg Phe Phe Tyr Ser Lys Ser Phe		
110	115	120
Val Lys His Ser Phe Glu Ile Val Ala Met Ala Cys Ile Asn Leu		
125	130	135
Ala Ser Lys Ile Glu Glu Ala Pro Arg Arg Ile Arg Asp Val Ile		

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				140					145				150	
Asn	Val	Phe	His	His	Leu	Arg	Gln	Leu	Arg	Gly	Lys	Arg	Thr	Pro
				155					160					165
Ser	Pro	Leu	Ile	Leu	Asp	Gln	Asn	Tyr	Ile	Asn	Thr	Lys	Asn	Gln
				170					175					180
Val	Ile	Lys	Ala	Glu	Arg	Arg	Val	Leu	Lys	Glu	Leu	Gly	Phe	Cys
				185					190					195
Val	His	Val	Lys	His	Pro	His	Lys	Ile	Ile	Val	Met	Tyr	Leu	Gln
				200					205					210
Val	Leu	Glu	Cys	Glu	Arg	Asn	Gln	Thr	Leu	Val	Gln	Thr	Ala	Trp
				215					220					225
Asn	Tyr	Met	Asn	Asp	Ser	Leu	Arg	Thr	Asn	Val	Phe	Val	Arg	Phe
				230					235					240
Gln	Pro	Glu	Thr	Ile	Ala	Cys	Ala	Cys	Ile	Tyr	Leu	Ala	Ala	Arg
				245					250					255
Ala	Leu	Gln	Ile	Pro	Leu	Pro	Thr	Arg	Pro	His	Trp	Phe	Leu	Leu
				260					265					270
Phe	Gly	Thr	Thr	Glu	Glu	Glu	Ile	Gln	Glu	Ile	Cys	Ile	Glu	Thr
				275					280					285
Leu	Arg	Leu	Tyr	Thr	Arg	Lys	Lys	Pro	Asn	Tyr	Glu	Leu	Leu	Glu
				290					295					300
Lys	Glu	Val	Glu	Lys	Arg	Lys	Val	Ala	Leu	Gln	Glu	Ala	Lys	Leu
				305					310					315
Lys	Ala	Lys	Gly	Leu	Asn	Pro	Asp	Gly	Thr	Pro	Ala	Leu	Ser	Thr
				320					325					330
Leu	Gly	Gly	Phe	Ser	Pro	Ala	Ser	Lys	Pro	Ser	Ser	Pro	Arg	Glu
				335					340					345
Val	Lys	Ala	Glu	Glu	Lys	Ser	Pro	Ile	Ser	Ile	Asn	Val	Lys	Thr
				350					355					360
Val	Lys	Lys	Glu	Pro	Glu	Asp	Arg	Gln	Gln	Ala	Ser	Lys	Ser	Pro
				365					370					375
Tyr	Asn	Gly	Val	Arg	Lys	Asp	Ser	Lys	Arg	Ser	Arg	Asn	Ser	Arg
				380					385					390
Ser	Ala	Ser	Arg	Ser	Arg	Ser	Arg	Thr	Arg	Ser	Arg	Ser	Arg	Ser
				395					400					405
His	Thr	Pro	Arg	Arg	His	Tyr	Asn	Asn	Arg	Arg	Ser	Arg	Ser	Gly
				410					415					420
Thr	Tyr	Ser	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Arg	Ser	His	Ser	Glu
				425					430					435
Ser	Pro	Arg	Arg	His	His	Asn	His	Gly	Ser	Pro	His	Leu	Lys	Ala
				440					445					450
Lys	His	Thr	Arg	Asp	Asp	Leu	Lys	Ser	Ser	Asn	Arg	His	Gly	His
				455					460					465
Lys	Arg	Lys	Lys	Ser	Arg	Ser	Arg	Ser	Gln	Ser	Lys	Ser	Arg	Asp
				470					475					480
His	Ser	Asp	Ala	Ala	Lys	Lys	His	Arg	His	Glu	Arg	Gly	His	His
				485					490					495
Arg	Asp	Arg	Arg	Glu	Arg	Ser	Arg	Ser	Phe	Glu	Arg	Ser	His	Lys
				500					505					510
Ser	Lys	His	His	Gly	Gly	Ser	Arg	Ser	Gly	His	Gly	Arg	His	Arg
				515					520					525

Arg

&lt;210&gt; 18





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ctgcacggcc	ctgcccagga	gaactcagca	ctgcctggac	ggtgaggctc	agctttctgag	300
ctgagggctc	tatcaggcct	ggaagtggac	cctggggagg	ggtggggcag	ggtagttctg	360
ataagtcccta	ggactgttcg	cttccgggtt	ctgagccctg	gcgtcaggga	ggaagggcat	420
gtccagaaca	atggccagaa	ccaggccccg	ccagctcggg	cgggtgacgg	ggcggggtgg	480
ctggggcagc	gctgccgtgt	gcagggggcg	agccctgcgg	ggccgtgagc	cggccctgcc	540
ttctgcttcc	ttcccagatg	tagccgcctg	tcccgggagc	ctggactgtg	ccctgaagag	600
gcgggcaagg	tgtcctcctg	gtgcacatgc	ctgtggggccc	tgccttcagc	ccttccagga	660
ggaccagcaa	gggctctgtg	tgcccaggat	gcgcggcct	ccaggcgggg	gccggcccca	720
gcccagactg	gaagatgaga	ttgacttcct	ggcccaggag	cttgcccgga	aggagtctgg	780
acactcaact	ccgcccctac	ccaaggaccg	acagcggctc	ccggagcctg	ccaccctggg	840
cttctcggca	cgggggcagg	ggctggagct	gggcctcccc	tccactccag	gaacccccac	900
gccccagccc	cacacctccc	tgggtctccc	tgtgtcatcc	gaccgggtgc	acatgtcgcc	960
cctggagccc	cggggagggc	aaggcgacgg	cctcgccctt	gtgctgatcc	tggcgttctg	1020
tgtggccggt	gcagccgccc	tctccgtagc	ctccctctgc	tgggtcaggc	tgcagcgtga	1080
gatccgcctg	actcagaagg	ccgactacgc	cactgcgaag	gcccctggct	cacctgcagc	1140
tccccggatc	tgcctggggg	accagcggct	ggcacagagc	gcggagatgt	accactacca	1200
gcaccaacgg	caacagatgc	tgtgcctgga	gcggcataaa	gagccacca	aggagctgga	1260
cacggcctcc	tcggtagagg	agaatgagga	cggagacttc	acggtgtacg	agtggccggg	1320
cctggccccc	accggggaaa	tggaggtgcg	caaccctctg	ttcgaccacg	ccgcaactgtc	1380
cgcgcccctg	ccggccccca	gctcacccgc	tgcactgcca	tgacctggag	gcagacagac	1440
gccccacctgc	tccccgacct	cgaggccccc	ggggaggggc	agggcctgga	gcttcccact	1500
aaaaacatgt	tttgatgctg	tgtgcttttg	gctgggcctc	gggctccagg	ccctgggacc	1560
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<210> 30

<211> 495

<212> DNA

<213> Homo sapiens

WO 00/23589

PCT/US99/24511

<220>

<221> misc\_feature

<223> Incyte ID No: 4286006CB1

<400> 30

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<210> 31

<211> 1993

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<213> Homo sapiens

<220>

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<223> Incyte ID No: 4325626CB1

<400> 31

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PCT/US99/24511

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1993

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&lt;210&gt; 32

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1438978CB1

&lt;400&gt; 32

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728

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&lt;210&gt; 33

&lt;211&gt; 1452

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2024773CB1

&lt;400&gt; 33

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PCT/US99/24511

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<212> DNA  
<213> Homo sapiens

<220>  
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<223> Incyte ID No: 3869790CB1

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<210> 35  
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<212> DNA  
<213> Homo sapiens

<220>  
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<223> Incyte ID No: 001273CB1



WO 00/23589

PCT/US99/24511

<400> 35

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<210> 36

<211> 2099

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 411831CB1

<400> 36

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&lt;210&gt; 37

&lt;211&gt; 1363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1520835CB1

&lt;400&gt; 37

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<211> 1465  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1902803CB1

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<210> 39  
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<212> PRT  
<213> Mus musculus

<300>  
<308> GenBank ID No: g452276

<400> 39  
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Leu Arg Leu Leu Leu Ser Gly Leu Ile Leu Gly Ala Ala Leu Asn  
20 25 30  
Gly Ala Thr Ala Arg Arg Pro Asp Ala Thr Thr Cys Pro Gly Ser

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	35		40		45
Leu Asp Cys Ala	Leu Lys Arg Arg Ala Lys Cys Pro Pro Gly Ala				
	50		55		60
His Ala Cys Gly	Pro Cys Leu Gln Ser Phe Gln Glu Asp Gln Arg				
	65		70		75
Gly Phe Cys Val	Pro Arg Lys His Leu Ser Ser Gly Glu Gly Leu				
	80		85		90
Pro Gln Pro Arg	Leu Glu Glu Glu Ile Asp Ser Leu Ala Gln Glu				
	95		100		105
Leu Ala Leu Lys	Glu Lys Glu Ala Gly His Ser Arg Leu Thr Ala				
	110		115		120
Gln Pro Leu Leu	Glu Arg Ala Gln Lys Leu Leu Glu Pro Ala Ala				
	125		130		135
Thr Leu Gly Phe	Ser Gln Trp Gly Gln Arg Leu Glu Pro Gly Leu				
	140		145		150
Pro Ser Thr His	Gly Thr Ser Ser Pro Ile Pro His Thr Ser Leu				
	155		160		165
Ser Ser Arg Ala	Ser Ser Gly Pro Val Gln Met Ser Pro Leu Glu				
	170		175		180
Pro Gln Gly Arg	His Gly Asn Gly Leu Thr Leu Val Leu Ile Leu				
	185		190		195
Ala Phe Cys Leu	Ala Ser Ser Ala Ala Leu Ala Val Ala Ala Leu				
	200		205		210
Cys Trp Cys Arg	Leu Gln Arg Glu Ile Arg Leu Thr Gln Lys Ala				
	215		220		225
Asp Tyr Ala Ala	Thr Ala Lys Gly Pro Thr Ser Pro Ser Thr Pro				
	230		235		240
Arg Ile Ser Pro	Gly Asp Gln Arg Leu Ala His Ser Ala Glu Met				
	245		250		255
Tyr His Tyr Gln	His Gln Arg Gln Gln Met Leu Cys Leu Glu Arg				
	260		265		270
His Lys Glu Pro	Pro Lys Glu Leu Glu Ser Ala Ser Ser Asp Glu				
	275		280		285
Glu Asn Glu Asp	Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Leu				
	290		295		300
Ala Pro Thr Gly	Glu Met Glu Val Arg Asn Pro Leu Phe Asp His				
	305		310		315
Ser Thr Leu Ser	Ala Pro Val Pro Gly Pro His Ser Leu Pro Pro				
	320		325		330
Leu Gln					

<210> 40  
 <211> 268  
 <212> PRT  
 <213> Homo sapiens

<300>  
 <308> GenBank ID No: g998357

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 1 5 10 15

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Ser Arg His Asp Met Leu Ala Trp Ile Asn Glu Ser Leu Gln Leu
      20                      25                      30
Asn Leu Thr Lys Ile Glu Gln Leu Cys Ser Gly Ala Ala Tyr Cys
      35                      40                      45
Gln Phe Met Asp Met Leu Phe Pro Gly Ser Ile Ala Leu Lys Lys
      50                      55                      60
Val Lys Phe Gln Ala Lys Leu Glu His Glu Tyr Ile Gln Asn Phe
      65                      70                      75
Lys Ile Leu Gln Ala Gly Phe Lys Arg Met Gly Val Asp Lys Ile
      80                      85                      90
Ile Pro Val Asp Lys Leu Val Lys Gly Lys Phe Gln Asp Asn Phe
      95                      100                     105
Glu Phe Val Gln Trp Phe Lys Lys Phe Phe Asp Ala Asn Tyr Asp
     110                     115                     120
Gly Lys Asp Tyr Asp Pro Val Ala Ala Arg Gln Gly Gln Glu Thr
     125                     130                     135
Ala Val Ala Pro Ser Leu Val Ala Pro Ala Leu Asn Lys Pro Lys
     140                     145                     150
Lys Pro Leu Thr Ser Ser Ser Ala Ala Pro Gln Arg Pro Ile Ser
     155                     160                     165
Thr Gln Arg Thr Ala Ala Ala Pro Lys Ala Gly Pro Gly Val Val
     170                     175                     180
Arg Lys Asn Pro Gly Val Gly Asn Gly Asp Asp Glu Ala Ala Glu
     185                     190                     195
Leu Met Gln Gln Val Asn Val Leu Lys Leu Thr Val Glu Asp Leu
     200                     205                     210
Glu Lys Glu Arg Asp Phe Tyr Phe Gly Lys Leu Arg Asn Ile Glu
     215                     220                     225
Leu Ile Cys Gln Glu Asn Glu Gly Glu Asn Asp Pro Val Leu Gln
     230                     235                     240
Arg Ile Val Asp Ile Leu Tyr Ala Thr Asp Glu Gly Phe Val Ile
     245                     250                     255
Pro Asp Glu Gly Gly Pro Gln Glu Glu Gln Glu Glu Tyr
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 <211> 418  
 <212> PRT  
 <213> Mus musculus

<300>  
 <308> GenBank ID No: g455719

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      20           25           30
Ser Ser Thr Pro Ser Pro Ser Leu Asn Leu Gly Ser Thr Glu Glu
      35           40           45
Ala Ile Arg Asp Asn Ser Gln Val Asn Ala Val Thr Val His Thr
      50           55           60

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